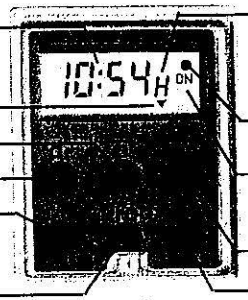
english

theben

Operating Instructions
Digital Timer TR 610 – Nr. 610 0 000
daily or weekly programm



Time/Response time
Weekday (7 = Sunday)
Hours holiday setting
Weekday setting
Time setting
Program entry/recall
Switching command »daily«
Response time number for the weekday indicated (1 ON, 1 OFF, 2 ON, 2 OFF, 3 ON, 3 OFF) H = Holiday program
The point indicates permanent control ON or OFF.
Indication of actual switch position/ switching command ON = ON/OFF = OFF
Minutes setting
Override control and permanent control.

Connection: Electrical devices should only be connected and mounted by an electrical specialist. Manipulations and modifications on the switch will result in loss of warranty. The national specifications and applicable safety regulations must be observed.

Note: In spite of an internal safety control, unusual strong noise fields could cause a disturbance of the microprocessor-controlled time switch.

Interference can be avoided if the following details are considered during installation:

– The device schould not be installed close to inductive consumers
– There has to be layed a separate line for the mains supply (if necessary mains suppression filter)
– Inductive consumers should have to be interference suppressed (varistor, RC-section)

After having cleared the interference, a reset of the time switch is necessary.

Starting up:
After connection to power supply, the following 4 keys have to be pressed simultaneously: »d« + »🕘« + »m« + »✎«. – Reset (total clearance).

1 – 7 **Daily program**
After the starting-up (reset) it is also possible to select an every day routine programm with 12 switchings (6 ON + 6 OFF) by means of **time setting without** pressing »d« for the respective weekday. The daily program is indicated by the arrow standing above »1 → 7«. The program entry starts as soon as the response time is entered, as no weekday is entered.

🕘 **Setting off time and weekday:**
During setting procedure, keep pressing »🕘«. Set the arrow on the display to the actual weekday by pressing »d«. Set the actual time by pressing »h« and »m«. Now take-off »🕘« – the clock is running.

Weekly program:
Weekly program with 8 response times (4 ON + 4 OFF) are programmable on one, on several or for all weekdays by means of a free block entry option.

Notice: If the entry is interrupted or finished, the display shows the actual time after 40 seconds – automatic operation. If necessary, the program entry has to be started once again.

Prog. **Starting the program entry:**
Press »Prog«.

ON-Switching command:
The display shows – : – – h, ON is indicated on the right side of the display representing the ON-command. Now press »d« and the arrow starts flashing above 1 = Monday. If this switching command should be carried out on Monday, Monday is entered by pressing »✎«. Other or further weekdays can be selected by pressing »d« and respectively entered by pressing »✎«.

If for example the command should be carried out from Monday to Friday at the same time, 5 arrows must stand above the numbers 1 … 5.
For daily switching commands, 7 arrows must stand above the weekdays. After having entered the weekday(s), the ON response time must be entered by pressing »h« and »m«. The switching command displayed must be entered by pressing »Prog«.

OFF-Switching command
OFF is now indicated on the right side of the display. The desired weekdays are now selected by pressing »d« and afterwards entered by pressing »✎« as already described. The response time can be entered by pressing »h« and »m« and stroed by pressing »Prog«. Response time No. 2, 3, and 4 to be entered as already described. When the program entry is finished, please press »🕘«.

? **Recall**
Pleas recall the ON and OFF switchings by pressing »Prog«. Afterwards press »🕘«.

Prog. **Change or Clearance of a command**
Recall the command by pressing »Prog« and change it by pressing »h«, »m« and if necessary »d« or clear the command indicated by simultaneously pressing »h« + »m«. Afterwards press »🕘«.

1…45 **Holiday program**
Holiday program to interrupt the automatic program for 1 … 45 days.

Entry: Keep pressing »h« during the total entry procedure.

Pressing »✎«, the number of the holidays are counted individually. After 45 (days), the display returns to 0. The holiday program starts at 0:00 h of the following day and is indicated by »H OFF«.

Recall/Change/Clearance
By pressing »h«, the stored or remaining holidays are indicated. Additionally pressing »✎«, the holiday program can be prolongated resp. set to 0, so that the automatic program sequence is continued. The holiday program even includes priority switchings of permanent controls.

Override
Pressing »✎«, ON/OFF is switched alternately. The following counter-acting program sequence annuls the manual control.

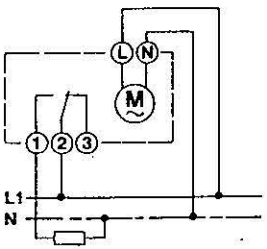
Permanent control
By pressing »✎« + »m« simultaneously, the following functions are switched: Permanently ON – permanently OFF – Automatic Operation. The point on the display indicates the permanent function ON or OFF.

± 1h **Summer Changeover + 1 hour.:** press »d« + »h« simultaneously
Winter Changeover – 1 hour: press »d« + »m« simultaneously

Technical Data:

Operating voltage:	230 V, ± 10 %
Mains frequency:	45 – 60 Hz
Own consumption:	approx. 8.5 VA
Contact rating:	16 A, 250 V~, cos φ = 1 10 A, 250 V~, cos φ = 0,6
Contact material:	AgCdO
Time base:	quartz
Memory locations:	8/12
Shortest possible switching interval:	1 minute
Switching accuracy:	precise-to-the second
Accuracy:	≤ ± 1 sec. / day at 20° C
Power reserve:	approx. 250 hours at 20° C
Admissible ambient temperature:	– 10° C … + 50° C (– 10T50)
Class of protection:	II according to EN 60335-1
Type of enclosure:	IP 20 as per EN 60529

Ensure that the power supplied to the product is within the specified voltage range of the product.



The time switches are in accordance with the European directives 73/23/EEC (Low-Voltage Directive) and 89/336/EEC (EMC-Directive). If the time switches are used together with other devices in an installation, take care that the complete installation does not cause a radio interference.

Service:

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